

## **Methods for Designing a Chamber to Reduce Noise in a Duct**

- Low-frequency duct noise is relatively difficult to deal with by passive methods such as porous duct lining. Reactive methods like expansion chamber are rather bulky, while compact resonators are too narrow-banded. This invention shows that a suitably stretched thin membrane backed by a slender cavity can achieve a satisfactory performance from low to medium frequencies over an octave band.
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